



Clark C. Cunningham and his portrait of Dean F. Norman Hughes, Faculty of Pharmacy, which was commissioned by the Ontario College of Pharmacy.



STAFF

DECEMBER 1963

bulletin

UNIVERSITY OF TORONTO



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DECEMBER EVENTS

2 MONDAY

Theatre

"The Aspern Papers" by Michael Redgrave from the story by Henry James, produced by Hart House Theatre; directed by George McCowan. Nov. 29 to Dec. 7 inc. 8.30 p.m.

3 TUESDAY

Lecture

"Books and Readers in Japanese History", a public lecture by Prof. Makoto Ueda, Department of East Asiatic Studies. Room 1073, Sidney Smith Hall. 4 p.m. (On the occasion of the presentation of books to the Library of the Department of East Asiatic Studies by the Consul of Japan.) A reception in the departmental library will follow the lecture.

Colloquium

Department of Mathematics. "Plastic Simple Waves". D. Naylor, University of Western Ontario. Room 106, U.C. 4 p.m.

Films

French Film. "Voici La France". Room 104, U.C. 1.10 p.m. Repeated Wednesday.

Science films. "The Living Machine". Parts I and II. University Library, Lower Reading Room, Old Wing. Tuesday from noon to 1 p.m., repeated Wednesday, 1 to 2 p.m. (Bring your lunch.)

Meeting

Academy of Medicine Stated Meeting. "Epidemiology of Rubella in Young Adults." Lt. Col. E. L. Buescher, Chief of the Department of Virus Diseases, Walter Reed Army Institute of Research, Washington, D.C. Osler Hall. 8.30 p.m. Dinner at University Club. 6.30 p.m.

4 WEDNESDAY

- Seminar Institute of Computer Science. "The Warehousing Problem, a Comparison and Integration of Three Different Approaches to the Warehousing Problem with Fixed Charges". Mr. J. B. Major, Imperial Oil Ltd., Toronto. Room 101, McLennan Laboratory. 4 p.m.
- Lecture Royal Ontario Museum "Exploring the Arts" course. "Town Planning: the Total Sensorium". Miss Jacqueline Tyrwhitt, Graduate School of Design, Harvard University. Room 64, R.O.M. 8 p.m. Admission \$1.50.

5 THURSDAY

- Meeting Toronto section of the International Association for Dental Research. "The History of the Jaws". Prof. D. J. McCallion. Room 329, Dental Building. 1 p.m. (This meeting was postponed from Nov. 28.)
- Poetry Readings Poems by Robert Creeley read by Roy MacSkimming, and poems by Edward Thomas read by Barker Fairley. Hart House Art Gallery. 1.15 p.m. (Ladies welcome.)

6 FRIDAY

- Anniversary Victoria University—On the occasion of the 50th anniversary of the opening of Burwash Hall and the Men's Residences, an address will be given by The Rt. Hon. Lester B. Pearson, Prime Minister of Canada, in Convocation Hall at 8.30 p.m., followed by a reception in Burwash Hall. Admission will be by ticket only. Requests should be mailed to Dr. E. G. Clarke, Senior Tutor, Victoria University, 73 Queen's Park Crescent, Toronto 5.

7 SATURDAY

- Lecture Royal Canadian Institute. "Building in the Canadian North". Dr. Robert F. Leggett, Director of the Division of Building Research, National Research Council. Convocation Hall. 8.15 p.m.
- Athletics Basketball. McGill at Varsity. Hart House. 8.30 p.m.
Water Polo. McGill at Varsity. Hart House. 8.30 p.m.

8 SUNDAY

- Films Royal Ontario Museum Sunday Films: "The World of Fantasy"; "The Travelling Tune" (paper sculpture); "TiJean goes Lumbering" (legend); "Gazouli-Petit Oiseau" (animated puppets); "The Golden Fish" (a tale from Paris). Museum Theatre. 2 p.m.
- Music University of Toronto Concert Band. MacMillan Theatre, Edward Johnson Building. 8.30 p.m.
- Hart House Sunday Evening Concert. St. Michael's Cathedral Choir. Great Hall. 9 p.m. Tickets available to members at hall porter's desk.

9 MONDAY

- Colloquium Department of Mathematics. "Abstract Groups". H. Wielandt, Universities of Tübingen and Wisconsin. Room 106, U.C. Monday and Tuesday. 4 p.m.
- Music Organ Recital by Mr. Victor Togni. Convocation Hall. 5 p.m.

10 TUESDAY

- Film French film: "Crin Blanc, Cheval Sauvage". Room 104, U.C. 1.10 p.m. Repeated Wednesday.
- Theatre "The Life of the Insects" produced by Victoria College Dramatic Society. Dec. 10 to 14 inc. 8.30 p.m.

12 THURSDAY

- Meetings Toronto Biochemical and Biophysical Society's 223rd meeting. Room 13, Medical Building. 7 p.m. The following papers will be read: (1) "The Influence of Reserpine on the Intracellular Distribution of Noradrenaline in the Rat Heart". G. E. Johnson, Department of Physiology, Karolinska Institute, Stockholm. (2) "Isozymic Forms of Esterases in Human Liver". D. J. Ecobichon and W. Kalow, Department of Pharmacology, University of Toronto. (3) "Assay of Insulin Activity in Serum". J. K. Davidson and R. E. Haist, Department of Physiology, University of Toronto. (Thirty-minute paper.)
- Toronto section of the International Association for Dental Research. "Studies in the Early Embryological Development of the Face". Prof. M. C. Johnston, Department of Dental Research, University of Rochester. Room 329, Dental Building. 1 p.m.
- Music Faculty of Music Student Ensemble Concert. Concert Hall, Edward Johnson Building. 3 p.m.
- Faculty of Music Special Events Series. The Hungarian Quartet. Concert Hall, Edward Johnson Building. 8.30 p.m.
- Poetry Readings "The Miller's Tale" by Geoffrey Chaucer read in Middle English by Henry Tarvainen, Raymond Tripp, Alan Walker, Elaine Mitchell and John Leyerle. Hart House Art Gallery. 1.15 p.m. (Ladies welcome.)

13 FRIDAY

- Meeting Royal Astronomical Society of Canada—Toronto Centre. "An Amateur's Solar Tower Telescope". Walter Semerau, Kenmore, N.Y. Annual Meeting of the Centre. Room 1035, Wallberg Building. 8 p.m.

14 SATURDAY

- Athletics Fencing. Hobart College at Varsity. Hart House. 1 p.m.

15 SUNDAY

Music Ten Centuries Concert. Concert Hall, Edward Johnson Building.
8.55 p.m.

17 TUESDAY

Film French Film: "Le Marais". Room 104, U.C. 1.10 p.m. Repeated
Wednesday.

Theatre "Daffydil" produced by the Medical Society. Dec. 17 to 21 inc.
8.30 p.m.

18 WEDNESDAY

Music Royal Conservatory of Music Opera School Excerpts. MacMillan
Theatre. Edward Johnson Building. 8.15 p.m.

19 THURSDAY

Music Faculty of Music Student Ensemble Concert. Concert Hall, Edward
Johnson Builidng. 3 p.m.

20 FRIDAY

Faculty Club Christmas Luncheon. Members only.

31 TUESDAY

Faculty Club New Year's Eve Buffet Supper.

Exhibitions

"Individualists and Eccentrics"—the R. W. Findayson collection of Chinese Paintings. 3rd floor, Royal Ontario Museum. Until March 1, 1964.

"Canadiana Treasures: 25 Years". Canadiana Gallery.

Private Press Books from the Stanbrook Abbey Press operated by the nuns of the

Benedictine community of Stanbrook Abbey, Worcester, England. At the University Library during December.

"Recent Campus Architecture. Hart House Art Gallery. To Dec. 8. Open daily 10 a.m. to 10 p.m. (Ladies 2 to 5 p.m.)

Oil paintings by Angelo Kolenc. Alumni Hall, Victoria College. To Dec, 12.

R.O.M.: A Talk by the President

Early in October, President Claude Bissell spoke informally to senior staff members of the Royal Ontario Museum about their two roles.

He said most of them were aware of the crucial importance of intensive, continuous work with university students, believing that it is imperative to train the scholars who will preserve and augment our cultural heritage. From the ranks of university students must be drawn the Museum staff of the future. Students of all universities, particularly the universities of Ontario, should be encouraged to feel that the Museum is a haven where they are welcome—perhaps even privileged—guests. At the same time, the Museum in its beautiful and impressive building makes a declaration of a people's faith in cultural and educational values. It is the University's responsibility to ensure that the public appeal of the Museum is firmly based on a strong scholarly and academic foundation.

"The public function of the Museum and the influence of University scholarship cannot be divorced," the President emphasized.

Dr. Bissell complimented the staff on rising attendance figures and said plans were under way to make the Museum even more meaningful to the general public. A Museum Council would be established under the chairmanship of Dr. W. E. Swinton, Director of the Museum. It would include all the curatorial staff and the staff of the Education Division. At regular meetings throughout the year there would be discussion of policies relating to exhibitions, lectures, work with school children and other visiting groups, and any other matters affecting the whole institution. Special attention would be given to displays that would be self-explanatory teaching exhibits,

appealing to the imagination and both satisfying and inciting curiosity. The services of the display personnel to the curators will be improved and, especially on weekends, an effort will be made to have more members of the curatorial staff on hand to answer inquiries.

"There is abundant proof that displays and exhibits directed by scholarly curators have a public impact that is second to none," the President observed. "If the materials are handled with the highest knowledge and sincerity and explained with clarity, then the range of their teaching value to children, laymen, and students is immense."

Because of their dual responsibilities, there was no suggestion that curators in the Museum should come under the supervision of heads of corresponding academic departments, the President said. There was a large measure of co-operation now: this would increase in the normal democratic way of an academic community—in an atmosphere of mutual respect and good will among persons of ability and tolerance.

Dr. Bissell added that it would be University policy to consider curatorial positions as equivalent to professorial positions. Under this plan, approved in principle by the University's Board of Governors, a further study would be made of non-curatorial positions in the Museum, with particular attention being paid to positions requiring special skills, artistic ability, and expert judgment.

Dr. Bissell said that studies now under way indicated that more recognition should be given to the key roles of the Museum's 18 curators and that all of them should have direct access to Dr. W. E. Swinton, the director. The whole administrative structure

of the Museum was under close scrutiny, he said.

Various proposals to increase the co-operation between staff of academic departments and the Museum were under consideration, the President continued. One of these calls for the appointment of the Director of the Museum as a member, ex officio, of the Senate of the University, the Council of the Faculty of Arts and Science, and the Council of the School of Graduate Studies, and that all curatorial staff members cross-appointed to University departments have representation on the Council of the Faculty of Arts and Science, or other faculty councils where appropriate, on the same basis as other members of the University staff.

The School of Graduate Studies would be encouraged to support more graduate work involving the use of the Museum's materials and the Director and Associate Director of the Museum would take immediate steps to make the scholarly resources of the Museum

more readily available to responsible research workers.

Although many members of the Museum staff now write regularly for scholarly journals, some of their colleagues should be encouraged to publish the results of serious research. Closer liaison with the University of Toronto Press could result in a clearly regulated collaborative publishing program. Duties of scholars on the Museum staff would be rearranged to allow more time for research and writing.

Internationally the Museum is best known for the unique Chinese collection. The mineral collection is rated in the top six in the world. Many of the other collections are outstanding. Dr. Bissell said this inheritance places the Museum in a pre-eminent position in Canada, and involves the responsibility of making expert advice and assistance available to other museums and galleries in Canada when requested, and of largely speaking for Canada in international conferences on museum matters.

FACULTY CLUB

At the annual meeting of the Faculty Club on Oct. 28, the following new members of the Board of Directors were elected: Dean F. N. Hughes (Pharmacy); Prof. J. M. Ham (Electrical Engineering); Prof. M. B. Phillips (Food Sciences); Mr. K. S. Gregory (Assistant to the Vice-President [Adminis-

tration]); and Prof. G. R. Cook (History).

Officers for 1963-64 are: Past President: Prof. K. L. Ball (Library School); President: Prof. M. E. White (Classics, Trinity); Vice-President: Prof. A. S. Abel (Law); Treasurer: Prof. W. C. Hebdon (Political Economy) and Secretary: Mr. W. D. Foulds.

FELLOWSHIPS

The Council of St. John's College, Cambridge University, invites applications from scholars who will be on leave from their universities to apply for a Commonwealth Fellowship for 1964-65. The holder is entitled to a stipend of £300, to free College rooms and to the other rights and privileges of a resident Fellow. Election is made for one year. The fellowship is intended for scholars holding academic posts, irrespective of seniority, and not for men still working for post-graduate degrees. Further particulars may be obtained from the Registrar's office, Simcoe Hall.

The Canadian Institute of International Affairs has established a research fellowship for research on studies organized by the Institute. Graduate students and advanced scholars who are working in, or are interested in working in (1) The Impact of Modern Weapons on Strategy; (2) Canada, the United States and the Atlantic Community; (3) The Role of Non-Great Powers in the Promotion of World Order; or (4) The Problems of Economic Regionalism, should address enquiries to Mrs. Jone Schoeffel, Research Secretary of the Institute at 230 Bloor St. West, Toronto 5.

NOTES

Administration

PRESIDENT CLAUDE BISSELL addressed the National Conference of Canadian Universities and Colleges, as retiring president, at Quebec City on Oct. 15.

MR. FRANK R. STONE attended meetings of the Eastern Association of Colleges and University Business Officers at Atlantic City, Nov. 17-19.

MR. KENNETH J. BRADFORD attended the first National Seminar on Guidance and Counselling in Geneva Park, Nov. 7-9, and was chairman of a commission, "The Professional Role of the Counsellor".

Arts and Science

PROF. T. F. MCILWRAITH represented the Archaeological and Historic Sites Board at the unveiling of a plaque at Clinton on Oct. 19. He attended an invitation conference on "Museums and Anthropological Research" at the National Museum Ottawa, Oct. 25-26.

MR. R. B. DREWITT spent the summer on the archaeological survey of Teotihuacan, the largest precolumbian city in the new world. The survey is being sponsored for three years by the National Science Foundation. Mr. Drewitt's paper, "Ecological Factors in the Rise of Civilization" was published in the Kroeber Anthropological Papers Number 27.

PROF. HELEN S. HOGG has been appointed to the Advisory Committee on Science and Medicine for the Canadian World Exhibition (Montreal, 1967).

PROF. D. A. MACRAE has been elected to the Council of the American Astronomical Society.

PROF. RUTH J. NORTHCOTT addressed Centres of the Royal Astronomical Society of Canada in Halifax on Sept. 26 and Niagara Falls on Nov. 12 on "Astronomy in Canada" and in Ottawa on Oct. 16 on "Research at the David Dunlap Observatory".

PROF. P. R. DEMARQUE was invited to address a conference on "Stellar Evolution" held in New York, Nov. 13-15 and sponsored by the Institute for Advanced Study. He spoke on "Evolution of Stars Near One Solar Mass".

PROF. N. P. BADENHUIZEN visited the Electron Microscope Laboratories of the Botanical Department in the Eidgen. Technische Hochschule of Zurich, April 20-23. He attended the Annual Starch Conference in Detmold (Germany) April 24-26, where he delivered a paper on "Observations with the Electron Microscope on the Formation of Starch in the Plastids of Higher Plants". Later Prof. Badenhuiizen visited several universities and research stations in Portugal and lectured in the University of Lisbon on the subject of "The Structure of the Starch Granule". During a meeting of the Canadian Plant Physiologists, held at Winnipeg, June 20-22, he presented a paper on "The Early Development of the Chloroplasts in the Stem Meristems of Normal and Chlorotic Cynodon". From Sept. 4 to 7 he attended the Annual Starch Round Table in Melvil Village, N.H. which he addressed on the subject, "Changing the Starch Composition".

PROF. R. S. NYHOLM, Head of the Department of Chemistry, University College, London, visited the Department of Chemistry here in September and gave two lectures: "Recent Developments in the Chemistry of

the Early Transition Elements" and "Metal-Metal Bonds in Inorganic Chemistry".

PROF. IAN BURTON presented a paper to the Canadian Association of Geographers meeting in Quebec City in June on "Accessibility in Northern Ontario: An Application of Graph Theory to a Regional Highway Network". He also participated in a seminar on "Quantitative Methods in Geography".

PROF. MARIO VALDÉS addressed the Southern Ontario Chapter of the American Association of Teachers of Spanish and Portuguese on "*Amor y pedagogía y lo grotesco*" at the University of Western Ontario on Nov. 2.

PROF. H. S. M. COXETER participated in a panel discussion on graduate work at the Saskatoon meeting of the Canadian Mathematical Congress, of which he was elected a vice-president. In November he gave invited lectures on "Similar Triangles" at the Universities of Windsor and Manitoba, on "Close Packing and Froth" to the Minnesota Section of the Mathematical Association of America in Fargo, N. D. and on "Polarities in Finite Projective Planes" at Dartmouth College.

PROF. D. G. IVEY gave the keynote address "Science Teaching Through the Eyes of a Scientist" to 122 elementary school teachers of the Thunder Bay Teachers' Institute at the Lakehead on Oct. 25.

PROF. J. N. P. HUME and PROF. IVEY prepared and presented a series of five television programs, "The Nature of Physics" for the National School Telecasts of the CBC, used for in-school broadcasts in October and November.

PROF. G. D. SCOTT conducted a seminar in the Nuclear Engineering department of the Brookhaven National Laboratory on Oct. 29.

PROF. J. C. STRYLAND gave a lecture entitled "Physical Chemical Measurements at High Pressures" at the 13th Chemical Engineering Conference of the Chemical Institute of Canada in Montreal, Oct. 19-23.

PROF. H. L. WELSH visited Syracuse University and Pennsylvania State University on Nov. 7 and 8 and gave lectures on "Recent Research at Toronto in Pressure-induced Infrared Absorption".

A monthly series of joint seminars are being held in nuclear physics by the Universities of Toronto and McMaster. Normally there is an outside speaker followed by dinner, and then a speaker from the faculty of one of the universities. In October, DR. RICHARD WILSON spoke at Toronto. In November DR. SHELINE of Florida State Uni-

versity was at McMaster and in December DR. TURCHINETZ speaks at Toronto. Other meetings are scheduled for January, February and March and it is hoped to hold a one-day nuclear physics conference at McMaster in April for all Ontario nuclear physicists.

PROF. S. G. TRIANTIS has been appointed a member of the Editorial Advisory Board of the International Encyclopedia of the Social Sciences.

PROF. H. I. MACDONALD addressed the Sydenham Club of Toronto on Oct. 31 on "A New Look at the New Europe" and lectured at the National Defence College in Kingston on Nov. 1 on "Western European Integration".

PROF. A. AMSEL gave a public lecture at Dalhousie University on Nov. 8 on "The Psychology of Learning: The Present Outlook". He also spoke to the graduate students and staff on "Mechanisms of Persistence".

PROF. D. E. BERLYNE addressed the Graduate Student Colloquium at the University of Western Ontario on Oct. 23 on "Complexity, Arousal, Exploration and Learning", and also addressed the Psychology Club on "The Train of Thought". On Oct. 30, Prof. Berlyne gave a colloquium address at Yale University on "Motivational Effects of Complexity and Incongruity Variables".

PROF. M. F. GRAPKO spoke at the annual dinner of the St. Catharine's Kindergarten Association, on Nov. 20 on "Psychological Factors in Children's Work and Play".

PROF. C. R. MYERS attended a meeting of the NATO Advisory Group on Human Factors in Paris, France, Oct. 30-31.

PROF. C. H. BEDFORD participated in the Canadian Association of Slavists meeting in Quebec, and presented a paper, "Christ and Anti-Christ in the Historical Novels of D. S. Merezhkovsky" on June 9. Prof. Bedford was elected a member of the editorial committee of the *Canadian Slavonic Papers*.

PROF. S. D. CLARK attended the meeting of the American Sociological Association in Los Angeles where he presented a paper on "The Repudiation of Urban Society by the Suburban Population". He also planned and chaired the Association's session on History and Sociology.

PROF. O. HALL presented a paper on "Sociological Research on Patient Care" to the annual convention of the Saskatchewan Hospital Association in Saskatoon on Oct. 10, and addressed the Association's annual dinner.

PROF. DONALD E. WILLMOTT served as organizer for a conference on "Processes of Change in Chinese Society" which was held in Toronto on Nov. 1-2.

St. Michael's

REV. JOHN M. KELLY was the recipient of a Medal of Honour presented by Georgetown University of Washington, D.C. in connection with the celebration of the 17th anniversary of the university.

SISTER CORINNE addressed the French section of the Ontario Secondary School Teachers' Federation at the Regional Conference for the Ottawa district at Arnprior on Oct. 25.

University College

PROF. A. S. P. WOODHOUSE received the degree of D.Litt. from Waterloo Lutheran University on Oct. 19.

PROF. CLIFFORD LEECH delivered the George F. Reynolds Lectures at the University of Colorado on "When Writing Becomes Absurd" and "The Acting of Marlowe and Shakespeare" on Oct. 21 and 23.

PROF. D. M. HAYNE gave a lecture on "Louis Fréchette" in the Living Tradition Series at Carleton University on Oct. 19.

Victoria

DR. A. B. B. MOORE received an honorary Doctor of Laws degree from Mount Allison University, Sackville, N.B. on Oct. 24.

DR. H. N. FRYE delivered the Bampton Lectures at Columbia University on Nov. 19, 20, 26 and 27. The subject was "The Development of Shakespearean Romance".

PROF. JOHN MACPHERSON read a paper entitled "The Silences of Flavius Josephus" before the Oriental Club of Toronto on Nov. 5.

PROF. D. J. GREENE attended meetings of the Conference on British Studies in New York in April and November. In April he was a member of a panel which discussed a paper by Prof. Herbert Butterfield of Cambridge University, "Some Reflections on the Early Years of George III's Reign". He has been named recording secretary of the Conference. In April Prof. Greene gave a paper, "Reflections on a Literary Anniversary" to the annual meeting of the John-sonian Society of the Great Lakes Region at Columbus, Ohio.

PROF. LAURE RIÈSE has been awarded the gold medal of the Alliance Française in

recognition of many years of devoted services as representative in Toronto of French culture. The medal was presented to Prof. Rièse on Nov. 7 by the Consul General of France in Toronto, M. Guy Scalabre, acting on behalf of the Alliance. Prof. Rièse recently addressed the Kitchener branch of the Alliance Française, of which she was founder.

Emmanuel

DR. K. H. COUSLAND was appointed president of the Toronto Conference of the United Church of Canada.

DR. C. DOUGLAS JAY inspected North Park Theological Seminary, Chicago, in November on behalf of the Commission on Accrediting of the American Association of Theological Schools.

Law

PROF. BORA LASKIN addressed the McGill Conference on the Future of Competition in November on the subject "Constitutional Limitations on Economic Planning in Canada".

PROF. EDWARD MCWHINNEY addressed a joint seminar of the Littauer School and the Center of International Studies at Harvard University on "European and North American Patterns of Federalism". He also addressed the Yale Law School on "Contemporary Soviet and Western Philosophies of International Law". In April last, Prof. McWhinney attended the annual meeting of the American Society of International Law in Washington, and was chairman of a panel on "The Legal Accommodation of Contending Systems (Coexistence)" and presented a paper on "Soviet-Western, Inter-Bloc, International Law". During the summer he gave a series of lectures on the theme "Soviet-Western International Law" as 1963 holder of the Alumni Visiting Chair in Law at the University of San Antonio, and also took part in a joint Soviet Bloc and Western Bloc Round Table on Juridical Aspects of Peaceful Coexistence held in Geneva.

PROF. J. B. MILNER was elected second vice-president of the Town Planning Institute of Canada last summer and attended the annual meeting of the Institute at Banff in August. Also in August, Prof. Milner visited Sweden with Mr. T. C. DOUGLAS, M.P.'s party, as an independent observer. Prof. Milner attended the joint seminar on co-operation in legal education of the As-

sociation of Canadian Law Teachers and the Association of American Law Schools at North Hatley, Quebec, on Sept. 7-9, as representative of the Faculty. He also addressed the National Planning Conference of the Community Planning Association of Canada at Quebec on "The Centenary—Opportunity for City Building?" on Sept. 30.

Applied Science and Engineering

PROF. B. ETKIN attended the 9th Anglo-American Aeronautical Conference in Montreal, Oct. 21-22.

DR. J. H. DE LEEUW attended a regular meeting of the NRC Associate Committee for Aerodynamics in Ottawa on Nov. 5.

PROF. ARTHUR PORTER gave a paper entitled "The Digital Computer and Defence Science" at the Royal Canadian Air Force Staff College on Oct. 22. He also presented a paper entitled "The Evolution of Information Science" at a joint meeting of the Engineering Seminar of the State University of New York at Buffalo and the Niagara Section of the American Institute of Industrial Engineers on Oct. 23.

PROF. D. J. CLOUGH has been appointed executive secretary of the Steering Committee to Establish a Foundation on Automation and Employment.

Five members of the Chemical Engineering Department attended the 13th Chemical Engineering Conference in Montreal, Oct. 21-23, and participated in the program as follows: PROFESSOR R. W. MISSEN presented a paper entitled "Liquid-Vapour Equilibrium in the Ternary System $\text{CH}_3\text{CN}-\text{C}_6\text{H}_6-\text{CCl}_4$ at 45° C.". The co-author was H. A. CLARKE. DR. J. W. SMITH participated in a special study session on Countercurrent Processing held in Montreal before the conference. He presented a paper entitled "Spouting of Mixed Particle Size Beds" and was co-author of a paper "Classification and Mixing of Solids in Particulate Fluidized Beds" which was presented by Dr. Norman Epstein of the University of British Columbia. DR. O. TRASS presented a paper "Mass Transfer from a Flat Surface to an Impinging Turbulent Jet", with V. V. RAO as co-author. He also received the Chemical Engineering Division "Best Presentation" award for the paper "Sublimation Mass Transfer in Supersonic Flow: The Effect of Compressibility and Schmidt Number" given at the previous annual conference in Sarnia.

PROF. S. SANDLER presented a paper, co-authored by R. STROM, on "A Gas Chromatographic Study of Intermediate-Product Distributions during the Combustion of Hydrocarbons in a Motored C.F.R. Engine". DR. W. F. GRAYDON was co-author with A. TOMBALAKIAN and G. YEH of a paper entitled "Mass Transfer Coefficients for Ion Exchange Resins", which he presented at the conference.

PROF. V. L. HENDERSON attended the 66th meeting of the Acoustical Society of America in New York on May 6-9. He was appointed chairman of the Writing Group of the American Standards Association S3-1-41, Vehicular Sound Level Measurement and Criteria, to write a standard for the Measurement of Motor Vehicle Noise.

MISS M. G. CURRIE attended the Fifteenth Session of the International Commission on Illumination (CIE) in Vienna, Austria, from June 18 to 26.

PROF. N. F. MOODY was appointed consultant to the Electronics Laboratory of the Defence Research Board.

DR. A. P. BERNHART gave a talk on "National Policy for Pollution Control" at the annual meeting of the Canadian Institute of Pollution Control in Quebec, Oct. 28.

PROF. H. R. RICE has been elected a director of the E. W. McNeill Foundation of the Presbyterian Church in Canada.

PROF. G. B. CRAIG visited Chalk River, Oct. 10-11 and gave a lecture entitled "Deformation of Zirconium".

PROF. L. M. PIDGEON attended the World Magnesium Conference in Montreal, Oct. 15-18.

PROF. W. C. WINEGARD attended the American Society for Metals Seminar in Cleveland, Oct. 20-21.

PROFS. B. ETKIN (Aerospace Studies), W. F. GRAYDON (Chemical Engineering), A. F. PILLOW (Mathematics), G. D. SCOTT (Physics) and W. C. WINEGARD (Metallurgical Engineering) have been appointed members of the Department of Engineering Science, which was established last June with PROF. V. G. SMITH as its head.

The Eleventh Wallberg Lecture was given on Nov. 7, by DR. N. R. CRUMP, chairman and president of the Canadian Pacific Railway Company. The title of his address was "Engineers in Management".

MR. V. P. BORECKY was awarded the Descriptive Geometry Award of the Engineering Graphics Division at the annual meeting of the ASEE in Philadelphia last June. This award was for Mr. Borecky's

articles "The Relationship Between Projective and Descriptive Geometry" and "The Techniques of Projective Geometry and its Application to Engineering Problems" published in *The Journal of Engineering Graphics*, February and November, 1962, contributory to engineering education on this continent. Mr. Borecky has been appointed visiting professor at the University of Illinois for the academic year 1963-64. He has been assigned lectures in "Graphical Methods" and "Engineering Applications of Projective Geometry" (for members of staff and graduate students); he is also improving a course on "Structural Mechanics and Kinematics". University of Illinois Press will publish Prof. Borecky's treatise on *Engineering Applications of Projective Geometry* which will be completed in June, 1964.

The name of the Institute of Aerophysics has been changed to the Institute for Aerospace Studies.

Food Sciences

PROFS. J. M. WARDLAW, I. L. ARMSTRONG, and M. B. PHILLIPS, MRS K. IRWIN, MRS P. COLEMAN, and MISS H. SMICKLAS attended the annual meeting of the Federation of American Societies for Experimental Biology in Atlantic City, April 16-20, where Prof. Wardlaw presented a paper entitled "Effects of three levels of sodium during pregnancy in the rat in granulation of renal juxtaglomerular cells and zona glomerulosa width". PROFS. WARDLAW and PHILLIPS attended the Canadian Nutrition Society meetings in London, June 20 and 21.

DEAN B. A. McLAREN attended board meetings of the Canadian Dietetic Association in Montreal in June, and addressed the Learned Societies at Laval University on June 13 on "The Importance of Research in Home Economics Programmes".

Members of the staff and graduate students giving papers at the symposium, held Homecoming Weekend, were: DEAN McLAREN on "The Importance of Research"; MISS H. D. PALIN on "Hypoglycemia"; MRS. E. NOBLE on "Nutrition in Arthritis"; MISS L. PERIGOE on "Phenylketonuria".

PROF. M. D. SMITH visited Food Science Departments at British Universities in June and participated in a seminar on World Feeding Problems held at the International Congress in Home Economics at the Sorbonne, Paris, in July.

PROF. J. M. WARDLAW presented a paper

"Newer Aspects of Protein Metabolism" at the Dietetic Section of the Ontario Hospital Association in Toronto, Oct. 29.

MRS. MARTHA LEITCH participated in meetings of the Canadian Housing Design Council, held in Ottawa on Oct. 28.

Education

DEAN DADSON spoke to the Association of Secondary School Superintendents on Oct. 31 on the subject "Of Mice and Men".

DR. WILLARD BREHAUT spoke to the Association of Ontario Secondary School Superintendents at its fall conference, Oct. 31, on "Testing Programmes Conducted in Ontario Secondary Schools, 1955-1963".

PROF. GEORGE FLOWER addressed the annual conference of the Etobicoke Public School Principals' Association at Niagara Falls, Oct. 26, on "Judging Teacher Competence".

DR. H. M. FOWLER addressed the fall convention of the Teachers' Institute of Wellington No. 2 on Oct. 4, at the Ontario Agricultural College in Guelph. His title was: "Using Measurement and Evaluation to Improve Teaching in the Public School".

PROF. G. A. KIRK took part in a French workshop sponsored by the Etobicoke Board of Education on Oct. 19 and was present on Oct. 24 at C. B. Parsons Junior High School, North York, with Madame Fohy St. Hilaire, Liaison officer with the Quebec provincial government. He took part in two Quebec broadcast programs on the teaching of French in Ontario and on teacher exchanges with Quebec.

PROF. J. M. PATON attended the Canadian Education Press Conference at Port Colborne on Nov. 10 and 11 as moderator of a panel discussion on "The Aims of a Teachers' Professional Journal", in which the editors of teacher association magazines from seven provinces participated.

PROF. CLIFFORD PITT recently conducted a three-day workshop on "Psychological Aspects of Pastoral Counseling" for Quebec Ministers at Laurentian Lodge, St. Agathe, Quebec. He spoke at Ottawa, and at McGill University on "Psychological Maturity and Christian Personality".

PROF. WILLIAM E. SAGER gave a paper on "Inductive Methods for Geography" to the geography teachers at the Simcoe County OSSTF District professional development day, Oct. 25.

PROF. G. E. TAIT addressed elementary

school teachers of the District of Parry Sound on the topic "Teaching Social Studies" on Oct. 25.

PROF. R. W. B. JACKSON attended the National Conference of Canadian Universities in Quebec City from Oct. 13 to Oct. 16 as a delegate from the University of Toronto, and also as an official representative of the Canadian Education Association.

Library School

PROF. FLORENCE B. MURRAY attended the Conference on Research Methods in Librarianship, sponsored by the University of Illinois at Monticello, Sept. 8-11. In October she was a speaker at two of the section meetings of the Ontario Library Association.

PROF. KATHARINE BALL and Miss MARGARET COCKSHUTT attended the workshop of the Institute of Professional Librarians at Geneva Park, Nov. 2 and 3.

Forestry

PROF. D. V. LOVE attended the Harvard Conference on Forest Production held in Petersham, Mass., Oct. 6-18. Prof. Love was recently re-elected vice-president of the Conservation Council of Ontario.

Graduate Studies

A new graduate degree, the Master of Philosophy (Phil.M.), was established by action of the Senate on November 8. The degree will require two years of full-time residence for candidates with the Toronto Honour B.A. or its equivalent. The program will consist of about three-quarters of course and seminar work, and one-quarter of independent scholarship culminating in a major essay which is meant to provide training and experience in research, but is not expected to lead to an original contribution to knowledge.

So far, fourteen graduate departments have signified their intention of offering the new degree: English, Philosophy, History, Political Economy, Romance, Classics, German, Anthropology, Sociology, East Asian Studies, Slavic, Near Eastern and Islamic, Fine Art, and Educational Theory.

Detailed information on the program should be available by about mid-December or early January, and will be sent on request.

A graduate summer session involving about half a dozen graduate departments is being planned for 1964. Courses for credit

will be offered at both the makeup and the graduate levels. They will vary in duration, the longest being about fourteen weeks and the shortest eight weeks. The Library will maintain full services throughout the period, except for some reduction of hours on Saturdays and Sundays. Full particulars will be published in the *Bulletin* as soon as possible.

The School of Graduate Studies was host to the Association of Graduate Schools in the Association of American Universities when it met for the second time in its history in Toronto, Oct. 21-22. DEAN A. R. GORDON, who at an earlier time had been vice-president of the Association but who had declined to become its president because the Association's work was mainly American, was made Honorary President of the Association.

ASSOCIATE DEAN E. SIRLUCK represented the School at the meetings of the Canadian Association of Graduate Schools which met in Quebec Oct. 12-14. At the subsequent meeting of the NCCUC which was held Oct. 14-16 the CAGS was made an associate member in the NCCUC.

Dentistry

DRS. J. A. PEDLER and C. H. M. WILLIAMS will attend a conference on the use of the "Cytological Smear Technique" for the detection of cancer of the mouth, to be held in Montreal on Dec. 3.

DR. G. T. MITTON will attend a workshop at Rutgers University, Dec. 4-6. The topic for discussion is "The Teaching of Dental Public Health".

DR. K. J. PAYNTER will attend a workshop on "Continuing Education" sponsored by the American Association of Dental Schools and the American Dental Association to be held in Chicago, Dec. 9-11.

DR. G. NIKIFORUK has been granted study leave from Jan. 1 to June 30, 1964.

Pharmacy

"The Community Pharmacist in Public Health" was the subject of an address given by DEAN F. N. HUGHES at a seminar in Ottawa on Nov. 6, sponsored by the Ontario College of Pharmacy. PROF. G. R. DUNCAN presented a paper on "The Chemical Nature of the Hereditary Material", and MR. G. N. ROTENBERG spoke on "Unique Dispensing Problems".

PROFS. D. R. KENNEDY and J. G. NAIRN gave a series of lectures on "Drug Absorption" to the Thunder Bay Pharmaceutical

Association in Fort William, Sept. 16-18. Prof. Kennedy also gave two lectures on "Dermatology".

"Pharmaceutical Research" was the topic of four addresses given this fall by PROF. G. R. PATERSON to Kiwanis Club branches of Bloor-Toronto, Clarkson-Lorne Park, Scarborough and East York. The members of these clubs are assisting in the research program by providing plant materials.

Nursing

PROF. HELEN CARPENTER attended a meeting of the Education Committee of the International Council of Nurses, in London, England. This meeting was a follow-up of the work of the Committee in June. The Committee is studying Basic Nursing Education in the 59 countries associated with the International Council of Nurses.

MISSSES WILLA ROUTLEDGE and JOSEPHINE FLAHERTY attended a workshop planned by the Canadian Nurses' Association—"To consider the essential principles in developing objectives in basic nursing education programs".

MISS ARLENE AISH attended a course in neurosurgical nursing at the Toronto General Hospital.

Hygiene

At its meeting in Kansas City, The American Public Health Association elected DR. A. J. RHODES as one of its Vice-Presidents for the session 1963-64. The Association was organized in 1872 to protect and promote public and personal health and has a membership of 13,500 health workers from the U.S., Canada, Latin America and many other countries.

During July and August PROF. G. H. BEATON attended the International Congress on Nutrition, Edinburgh, Scotland, where he presented a paper. He also served as chairman of a symposium on "Nutrient Interrelationships" held by the Nutrition Society (Great Britain) at Oxford.

DR. A. M. FALLIS attended the joint meetings of the American Society of Parasitologists and the American Society of Tropical Medicine and Hygiene held Nov. 6-9 in Chicago. He presented a paper on "The Epizootiology of Infection Caused by *Leucocytozoon simondi*". Dr. Fallis was invited to speak on "Some Haematozoan Parasites Spread by Arthropods to Birds" in a symposium on "Transmission of Animal Diseases

by Arthropods" arranged by the American Entomological Society for their annual meeting, Dec. 2-5 at St. Louis, Mo.

A visitor to the School of Hygiene on Oct. 21 and 23 was PROF. ANDREW B. SEMPLE, Medical Officer of Health for the City and Port of Liverpool, Professor of Public Health at the University of Liverpool, and president of the Royal Society of Health. On Oct. 21, Dr. Semple gave a lecture on "The Role of the Medical Officer of Health in the British National Health Service, Past, Present and Future", and on Oct. 23 he spoke on "Experience with Smallpox in England".

DR. D. M. MCLEAN attended the annual meeting of the American Society of Tropical Medicine in Chicago on Nov. 6 and presented a paper entitled "Arbovirus Spectrum in Ontario". He later presented a paper, "Microbiological Hazards of Freshwater Bathing" at the annual meeting of the American Public Health Association in Kansas City on Nov. 14.

Business

PROF. J. H. G. CRISPO gave an address on "Manpower Training and Development in Ontario" to the Association of Ontario Secondary School Superintendents in Toronto on Nov. 1. He also spoke on "Employee-Employer Relations and the Professional" to the Institute of Professional Librarians of Ontario at Geneva Park on Nov. 3.

PROF. O. W. MAIN gave an address on "The University and Business Education" to the Institute of Internal Auditors, Toronto Chapter on Oct. 17, and one entitled "The Changing Philosophy of Management" to the Canadian Industrial Management Association, Toronto Branch, on Nov. 5.

PROF. R. PRESGRAVE spoke on "The Manager of the Future" at the Staff Training Conference of the Canadian Imperial Bank of Commerce, on Oct. 24.

Computer Science

PROF. C. C. GOTLIEB presented his paper, "Administration Requirements and Applications" at the Conference I on "The Computing Sciences in the University", sponsored by The Computing Sciences Consulting and Coordinating Committee of the State University of New York, held at the State University of New York at Buffalo on Oct. 21-22.

DR. BEATRICE H. WORSLEY became the representative of the Institute of Computer Science in the working group to implement the first of the University of Toronto Library's projects to automatize Library activity. Dr. Worsley has also accepted the invitation of the SHARE organization, in which she is representing this University, to act as chairman of its University Computer Installation Interest Group. This group will provide a forum for topics of mutual interest to SHARE university members.

Royal Ontario Museum

DR. W. B. SCOTT attended the annual meeting of the Gulf & Caribbean Fisheries Institution, held at the Institute of Marine Science, Miami, from Nov. 11 to 15.

DR. R. R. H. LEMON spent five weeks during July and August studying the Pleistocene emerged reefs of the Florida Keys and examining the research collections at the Marine Laboratory of the University of Miami. Extensive collections of fossil and modern material were made.

MR. HENRY TRUBNER has been awarded a travel grant by the American Council of Learned Societies to enable him to participate in the XXVI International Congress of Orientalists in New Delhi from Jan. 4-10, 1964.

MRS. BARBARA STEPHEN visited the Catskill Game Farm Inc., Catskill, New York to study their Asian equids.

DR. V. B. MEEN addressed the Geology Section of the Buffalo Society of Natural Sciences on Nov. 1, on "The Ruby and Jade Deposits of Burma".

DR. V. B. MEEN and MR. J. B. HILLEN have returned from several weeks in Germany and Switzerland. Studies were made of collections and display techniques in the Deutsches Museum, Munich; Mineralogical Institute, Bonn; Mineralogical Institute of the Bergakademie, Freiberg, D.D.R.; the Grüne Gewölbe, Dresden, D.D.R.; Natural History Museum, Berne; and the Archaeological Museum in Neuchatel. Visits were

made also to the factories of Carl Zeiss, Oberkochen; and V.E.B. Carl Zeiss/Jena, at Jena; to the planetaria in Nurnberg, Munich and Jena; and to the observatory at Tautenberg, D.D.R.

DR. J. A. MANDARINO addressed the Canadian Gemmological Association on "The Nomenclature of Minerals and Gemstones". He spoke also to the Kingston Lapidary and Mineral Club on the subject "Identification of Minerals".

DR. A. D. TUSHINGHAM presented the Founder's Day address at Kenyon College in Ohio on Nov. 1.

MRS. NEDA LEIPEN has returned from a two-month trip to Europe during which she visited the museums in France, Denmark and England, studying in particular the Greek and Roman Terra cottas in the Louvre, the National Museum in Copenhagen and the British Museum. She also attended the 8th International Congress on Classical Archaeology in Paris, Sept. 3-13, and visited, in conjunction with the Congress, some of the most important ancient sites and monuments in the south of France.

KENNETH E. KIDD and EDWARD S. ROGERS attended a conference in Ottawa sponsored by the National Museum to discuss the role of museums and anthropological research.

The Press

The following have been published by the Press since the November *Bulletin*:

In Return: The Autobiography of Sigmund Samuel. By Sigmund Samuel. \$4.50

The Changing Conditions of Politics. By J. A. Corry. \$1.95

William Lyon Mackenzie King, Volume II. The Lonely Heights, 1924-1932. By H. Blair Neatby. \$7.95. Kingsmere edition \$75.00

The Canadian Diplomat. By Marcel Cadieux, translated by Archibald Day. \$3.95 (cloth), \$1.95 (paper)

The Earlier Letters of John Stuart Mill, 1812-1848. Edited by Francis E. Mineka. \$20.00 for two-volume set

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